

Amendments to the Claims

This listing of claim will replace all prior versions and listings of claim in the application.

1.-12. (Cancelled)

13. (Previously Presented) A method for marking a computer aided design drawing using a processing device, comprising:

finding a door gap in the drawing;

finding at least one gap line, wherein said step of finding at least one gap line includes

selecting a first and a second group of contact points for a door gap,

determining edge points in each selected group, and

marking a point at an edge of the first group and an edge point in the second group,

wherein the steps of selecting, determining and marking are repeated by reversing the first and second group of points,

determining a room relative to said door gap; and

marking said drawing to indicate a room definition.

14.-22. (Cancelled)

23. (Currently Amended) One or more processor readable storage devices having processor readable code embodied on said processor readable storage devices, said processor readable code for programming one or more processors to perform a method comprising the steps of:

finding a door gap in the drawing;

determining a room relative to said door; and

marking said drawing to indicate a room definition,

wherein the step of finding a door gap includes performing the sub-steps of:

selecting a first group of contact points and a second group of contact points,

identifying a first point and a second point in the first group of contact points,

determining a line between the first point and the second point,

determining a second line between the second point and a third point, the third point contained in either the first group of contact points or the second group of contact points,

comparing the first line and the second line to determine a difference in length between the lines,

determining if the difference is greater than a length threshold,

repeating said sub-steps of identifying, determining, and comparing, if needed, with additional points until a difference between two lines is greater than the length threshold, and

identifying the door gap as an edge associated with a difference that is greater than the length threshold.

following an outside edge of a first group of contact points until it reaches an edge that crosses between the groups;

following the outside edge of the second group of contact points until it reaches a second edge that crosses between the groups; and

comparing the first crossing edge to a first previous edge and the second crossing edge to a second previous edge to determine if the difference is greater than a threshold and associated with a gap.

24. (Original) One or more processor readable storage devices according to claim 23 wherein the gap line is defined as the last point from the second group and an edge point in the first group.

25. (Original) One or more processor readable storage devices according to claim 23 wherein the step of selecting comprises selecting based on a wall thickness variable set by a user.

26.-41. (Cancelled)